

**PART 70 OPERATING PERMIT
and ENHANCED NEW SOURCE REVIEW
OFFICE OF AIR MANAGEMENT**

**Fort Wayne Foundry Corp. - Lima Road Division
4910 Lima Road
Fort Wayne, Indiana 46808**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T003-7528-00007	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date:

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary secondary aluminum metal production facility, which is one of the 28 listed source categories, pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

Responsible Official: Mr. Curt French, Vice President - Foundry Operations
Source Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Mailing Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Phone Number: Kathy McCrudden - (219) 483-0382
SIC Code: 3365
County Location: Allen
County Status: Attainment for all criteria pollutants
Source Status: Part 70 Permit Program
Major Source under PSD Rules;
Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (1) the scrap and charge handling process, constructed in 1985, with a maximum charge rate of 8 tons of aluminum ingots and scrap per hour, with emissions uncontrolled;
- (2) the aluminum melting process, consisting of two (2) natural gas-fired reverberatory furnace systems, identified as RF-1 and RF-2, constructed in 1986 and 1985 respectively, each with a maximum charge rate of 4 tons per hour of aluminum ingots and scrap and each with a maximum production rate of 2.5 tons of melted aluminum per hour, both uncontrolled, and exhausting through stacks D1 and D2, respectively;
- (3) one (1) pouring system, identified as P-1, constructed in 1979, with a maximum capacity of 2.5 tons of melted aluminum per hour and 27.5 tons of sand per hour, with emissions uncontrolled, and exhausting inside the building;
- (4) one (1) pouring system, identified as P-2, constructed in 1978, with a maximum capacity of 2.5 tons of melted aluminum per hour and 27.5 tons of sand per hour, with emissions uncontrolled, and exhausting inside the building;
- (5) one (1) castings cooling system, identified as C-1, constructed in 1979, with a maximum capacity of 2.5 tons of aluminum castings per hour and 27.5 tons of sand per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;

Note: Operation of the baghouse to control the C-1 castings cooling system is voluntary and is not required per this permit.

- (6) one (1) castings cooling system, identified as C-2, constructed in 1978, with a maximum capacity of 2.5 tons of aluminum castings per hour and 27.5 tons of sand per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;
- (7) one (1) shakeout knockout zone, identified as SK-1, constructed in 1979, with a maximum capacity of 27.5 tons of sand per hour and 2.5 tons of aluminum per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;

Note: Operation of the baghouse to control the shakeout knockout zone is voluntary and is not required per this permit.

- (8) one (1) shakeout knockout zone, identified as SK-2, constructed in 1978, with a maximum capacity of 27.5 tons of sand per hour and 2.5 tons of aluminum per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;

Note: Operation of the baghouse to control the shakeout knockout zone is voluntary and is not required per this permit.

- (9) one (1) sand handling system, identified as SH-1, constructed in 1978, with a maximum capacity of 50 tons of sand per hour, controlled by baghouse CD-1, and exhausting through stack CD-1;
- (10) three (3) core making systems, identified as ISO-1 through ISO-3, constructed in 1978, 1981, and 1982, respectively, each with a maximum capacity of 1 ton of sand per hour, all uncontrolled and exhausting through stack I-1;
- (11) three (3) core making systems, identified as ISO-4 through ISO-6, constructed in 1988, 1993, and 1994, respectively, each with a maximum capacity of 1 ton of sand per hour, all uncontrolled and exhausting through stack I-1; and
- (12) one (1) Isocure core machine, identified as ISO-7, to be constructed in 1999, with a maximum capacity of 1 ton of sand per hour and 20 pounds of Isocure resin per hour, with emissions uncontrolled and exhausting to stack I-5.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 including one (1) parts washer, constructed in 1991; [326 IAC 8-3-2] [326 IAC 8-3-5]
- (2) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. Processes in this category which are located at the source include the following:

- (a) the shotblasting operation, consisting of two (2) shotblasters, identified as the North and South Shotblasters, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a baghouse, designated as CD-2 and CD-3; [326 IAC 6-3-2]
- (b) the finishing operations, including ten (10) belt grinders and two (2) disc grinders, identified as the North and South finishing lines, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a cyclone; [326 IAC 6-3-2] and
- (c) pattern shop woodworking operations controlled by a cyclone. [326 IAC 6-3-2]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22); and
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

B.2 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM .
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.6 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management

100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAM, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. IDEM, OAM, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

B.13 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Management,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, has issued the modification. [326 IAC 2-7-12(b)(7)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, determines any of the following:

- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAM, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
- (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
 - (2) If IDEM, OAM, , upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAM, , takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, , any additional information identified as being needed to process the application.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAM, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.21 Operational Flexibility [326 IAC 2-7-20]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air

Act;

- (2) Any approval required by 326 IAC 2-1.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:

- (1) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).
- (2) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
 - (i) A brief description of the change within the source;
 - (ii) The date on which the change will occur;
 - (iii) Any change in emissions; and
 - (iv) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAM, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.22 Construction Permit Requirement [326 IAC 2]

A modification, construction, or reconstruction shall be approved if required by and in accordance with the applicable provisions of 326 IAC 2.

B.23 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]

B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit

responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

B.26 Advanced Source Modification Approval [326 IAC 2-7-5(16)]

The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3 if such modifications occur during the term of this permit.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- C.1 **Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]**
Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- C.2 **Opacity [326 IAC 5-1]**
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:
- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
- C.3 **Open Burning [326 IAC 4-1] [IC 13-17-9]**
The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.
- C.4 **Incineration [326 IAC 4-2][326 IAC 9-1-2]**
The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. The provisions of 326 IAC 9-1-2 are not federally enforceable.
- C.5 **Fugitive Dust Emissions [326 IAC 6-4]**
The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.
- C.6 **Operation of Equipment [326 IAC 2-7-6(6)]**
Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.
- C.7 **Stack Height [326 IAC 1-7]**
The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.
- C.8 **Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]**

-
- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
- (A) Asbestos removal or demolition start date;
- (B) Removal or demolition contractor; or
- (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAM, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.10 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.12 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.14 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 16, 1996.
- (b) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (c) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (d) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (e) Upon direct notification by IDEM, OAM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.

[326 IAC 1-5-3]

C.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]
[326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM, . The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been

predicted.

- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the

“responsible official” as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.19 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
- (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:
- Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

C.20 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

-
- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
 - (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
 - (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
 - (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
 - (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
 - (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
 - (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

Stratospheric Ozone Protection

C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] the scrap and charge handling process, constructed in 1985, with a maximum charge rate of 8 tons of aluminum ingots and scrap per hour, with emissions uncontrolled.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the scrap and charge handling process shall not exceed 16.5 pounds per hour when operating at a process weight rate of 8 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.1.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

the aluminum melting process, consisting of two (2) natural gas-fired reverberatory furnaces, identified as RF-1 and RF-2, constructed in 1986 and 1985 respectively, each with a maximum charge rate of 4 tons per hour of aluminum ingots and scrap and each with a maximum production rate of 2.5 tons of melted aluminum per hour, both uncontrolled, and exhausting through stacks D1 and D2, respectively.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply to each of the furnaces:

- (a) The PM emissions from each of the furnaces shall not exceed 5.48 pounds per hour. These limits will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (b) The PM10 emissions from each of the furnaces shall not exceed 3.20 pounds per hour.
- (c) The maximum amount of post-consumer scrap charged to each of the furnaces shall be limited to the amount of post-consumer scrap charged to each of the furnaces during the stack test. This amount shall be determined as a weight percent of the total charge. Until the stack tests have been conducted the maximum amount of post-consumer scrap charged to each of the furnaces shall not exceed 20% of the total charge to each of the furnaces.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.2.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 180 days after issuance of this permit, the Permittee shall perform PM and PM10 testing using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.2.1 (a) and (b). In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.4 Visible Emissions Notations

- (a) Visible emission notations of each of the furnace stack exhausts shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.5 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1(c), the Permittee shall maintain records of the amount of post consumer scrap charged to each of the furnaces every four hours (as a weight percent of the total charge to each furnace during that time period).
- (b) To document compliance with Condition D.2.4, the Permittee shall maintain records of visible emission notations of each of the furnace stack exhausts once per shift.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (1) one (1) pouring system, identified as P-1, constructed in 1979, with a maximum capacity of 2.5 tons of melted aluminum per hour and 27.5 tons of sand per hour, with emissions uncontrolled, and exhausting inside the building; and
- (2) one (1) pouring system, identified as P-2, constructed in 1978, with a maximum capacity of 2.5 tons of melted aluminum per hour and 27.5 tons of sand per hour, with emissions uncontrolled, and exhausting inside the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply:

- (a) The PM emissions from the P-2 pouring operation shall not exceed 10.5 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (b) The PM10 emissions from the P-2 pouring operation shall not exceed 5.15 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

D.3.2 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the pouring line P-1 shall not exceed 40 pounds per hour when operating at a process weight rate of 30 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.3.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.3.1 and D.3.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (1) one (1) castings cooling system, identified as C-1, constructed in 1979, with a maximum capacity of 2.5 tons of aluminum castings per hour and 27.5 tons of sand per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;

Note: Operation of the baghouse to control the C-1 castings cooling system is voluntary and is not required per this permit.

- (2) one (1) castings cooling system, identified as C-2, constructed in 1978, with a maximum capacity of 2.5 tons of aluminum castings per hour and 27.5 tons of sand per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the following conditions shall apply:

- (a) The PM emissions from the C-2 cooling operation shall not exceed 1.75 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (b) The PM10 emissions from the C-2 cooling operation shall not exceed 1.75 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

D.4.2 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the C-1 cooling line shall not exceed 40 pounds per hour when operating at a process weight rate of 30 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.4.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM and PM10 limits specified in Conditions D.4.1 and D.4.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.4.5 Particulate Matter (PM)

The baghouse for PM control shall be in operation at all times and control emissions from the C-2 cooling line whenever the C-2 cooling line is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.4.6 Visible Emissions Notations

- (a) Visible emission notations of the baghouse CD-1 stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.4.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the C-2 cooling line, at least once daily when the C-2 cooling line is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse CD-1 shall be maintained within the range of 3.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every twelve (12) months.

D.4.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the cooling operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.4.9 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.10 Record Keeping Requirements

- (a) To document compliance with Condition D.4.6, the Permittee shall maintain records of visible emission notations of the baghouse CD-1 stack exhaust once per shift.
- (b) To document compliance with Condition D.4.7, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and Compliance Response logs, including work purchase orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
- (c) To document compliance with Condition D.4.8, the Permittee shall maintain records of the results of the inspections required under Condition D.4.8.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.5

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (1) one (1) shakeout knockout zone, identified as SK-1, constructed in 1979, with a maximum capacity of 27.5 tons of sand per hour and 2.5 tons of aluminum per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;
- (2) one (1) shakeout knockout zone, identified as SK-2, constructed in 1978, with a maximum capacity of 27.5 tons of sand per hour and 2.5 tons of aluminum per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;

Note: Operation of the baghouse to control the shakeout knockout zones is voluntary and is not required per this permit.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply:

- (a) The PM emissions from the shakeout knockout zone, identified as SK-2 shall not exceed 8.0 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (b) The PM10 emissions from the shakeout knockout zone, identified as SK-2 shall not exceed 5.6 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 shall not apply.

D.5.2 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the shakeout knockout zone, SK-1 shall not exceed 40 pounds per hour when operating at a process weight rate of 30 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.5.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.5.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM and PM10 limits specified in Conditions D.5.1 and D.5.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

one (1) sand handling system, identified as SH-1, constructed in 1978, with a maximum capacity of 50 tons of sand per hour, controlled by baghouse CD-1, and exhausting through stack CD-1

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.6.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply:

- (a) The PM emissions from the sand handling system shall not exceed 1.99 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (b) The PM₁₀ emissions from the sand handling system shall not exceed 1.99 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 shall not apply.

D.6.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.6.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

Within 180 days after issuance of this permit, the Permittee shall perform PM and PM₁₀ testing using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.6.1 (a) and (b). This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.6.4 Particulate Matter (PM)

The baghouse CD-1 for PM control shall be in operation and control emissions from the sand handling system at all times when the sand handling system is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.6.5 Visible Emissions Notations

- (a) Visible emission notations of the baghouse CD-1 stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.6.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the sand handling process, at least once daily when the sand handling process is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 3.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every twelve (12) months.

D.6.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the sand handling operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.6.8 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.6.9 Record Keeping Requirements

- (a) To document compliance with Condition D.6.5, the Permittee shall maintain records of visible emission notations of the baghouse stack exhaust once per shift.

- (b) To document compliance with Condition D.6.6, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and Compliance Response logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
- (c) To document compliance with Condition D.6.7, the Permittee shall maintain records of the results of the inspections required under Condition D.6.7.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.7 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

two (2) core making systems, identified as ISO-1 and ISO-2, constructed in 1981 and 1982, each with a maximum capacity of 1 ton of sand per hour, all uncontrolled and exhausting through stack I-1

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 Volatile Organic Compounds (VOC) [326 IAC 2-2]

The combined resin usage for Isocure core machines ISO-1 and ISO-2 shall be limited to 191.41 tons per 12 consecutive month period. This usage limit is required to limit the potential to emit VOC to no greater than 39 tons per 12 consecutive month period. Compliance with this limit makes 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable.

D.7.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.7.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the VOC limit specified in Condition D.7.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.7.4 Record Keeping Requirements

- (a) To document compliance with Condition D.7.1, the Permittee shall maintain records of the resin usage for core machines ISO-1 and ISO-2 each month.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.7.5 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.7.1 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.8 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]	Insignificant Activities
Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, including one (1) parts washer constructed in 1991	
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)	

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.8.1 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.8.2 Volatile Organic Compounds (VOC)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.8.3 Hazardous Air Pollutants (HAPs)

Pursuant to the 40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants: Halogenated Solvent Cleaning, Subpart T, the solvent used in the parts washers shall not contain any of the following halogenated solvents in concentrations greater than five percent by weight: methylene chloride, 1,1,1-trichloroethane, trichloroethylene, perchloroethylene, carbon tetrachloride, or chloroform. Therefore, the requirements of this NESHAP shall not apply.

SECTION D.9 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]	Insignificant Activities
the shotblasting operation, consisting of two (2) shotblasters, identified as the North and South Shotblasters, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a baghouse, designated as CD-2 and CD-3.	
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)	

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.9.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from each of the shotblasters shall not exceed 7.6 pounds per hour when operating at a process weight rate of 2.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.9.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.9.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.9.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.9.4 Particulate Matter (PM)

The baghouses for PM control shall be in operation and control emissions from the shotblasters at all times when the shotblasters are in operation.

SECTION D.10 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]	Insignificant Activities
the finishing operations, including ten (10) belt grinders and two (2) disc grinders, identified as the North and South finishing lines, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a cyclone.	
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)	

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.10.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from each of the finishing lines shall not exceed 7.6 pounds per hour when operating at a process weight rate of 2.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.10.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.10.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.10.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.10.4 Particulate Matter (PM)

The cyclones for PM control shall be in operation and control emissions from the finishing lines at all times when the finishing lines are in operation.

SECTION D.11 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]	Insignificant Activity
the pattern shop woodworking operation, controlled by a cyclone	
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)	

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.11.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the pattern shop woodworking process shall not exceed the pounds per hour as calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.11.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Determination Requirements

D.11.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.11.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.11.4 Particulate Matter (PM)

The cyclone for PM control shall be in operation and control emissions from the pattern shot woodworking process at all times when the pattern shop woodworking process is in operation.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Fort Wayne Foundry - Lima Road Division
Source Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Mailing Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Part 70 Permit No.: T 003-7528-00007

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Fort Wayne Foundry - Lima Road Division
Source Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Mailing Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Part 70 Permit No.: T 003-7528-00007

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
<input checked="" type="radio"/>	1. This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
<input checked="" type="radio"/>	2. This is a deviation, reportable per 326 IAC 2-7-5(3)(C) C The Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency/Deviation:
Describe the cause of the Emergency/Deviation:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Fort Wayne Foundry - Lima Road Division
Source Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Mailing Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Part 70 Permit No.: T 003-7528-00007
Facility: Isocure core making machines ISO-1 and ISO-2
Parameter: resin usage (tons/month)
Limit: 191.41 tons per 12 consecutive month period

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR MANAGEMENT
 COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
 QUARTERLY COMPLIANCE MONITORING REPORT**

Source Name: Fort Wayne Foundry - Lima Road Division
 Source Address: 4910 Lima Road, Fort Wayne, Indiana 46808
 Mailing Address: 4910 Lima Road, Fort Wayne, Indiana 46808
 Part 70 Permit No.: T 003-7528-00007

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
 Title/Position: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Management

Addendum to the Technical Support Document for Part 70 Operating Permit

Source Name:	Fort Wayne Foundry - Lima Road Division
Source Location:	4910 Lima Road, Fort Wayne, Indiana 46808
County:	Allen
SIC Code:	3365
Operation Permit No.:	T003-7528-00007
Permit Reviewer:	Nisha Sizemore

On October 15, 1998, the Office of Air Management (OAM) had a notice published in the Fort Wayne Journal Gazette, Fort Wayne, Indiana, stating that Fort Wayne Foundry - Lima Road Division had applied for a Part 70 Operating Permit to operate a secondary aluminum production facility. The notice also stated that OAM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On November 17, 1998, Kathleen McCrudden of Fort Wayne Foundry - Lima Road Division submitted comments on the proposed Part 70 permit. The summary of the comments is as follows:

Comment #1

We wish to reaffirm our position that our source should not be classified as a secondary metal production plant, and therefore should not be treated as one of the 28 listed source categories in our Title V permit. The use of the term "secondary metal production" has been based on three elements: (1) use of scrap metal from outside sources as the primary feedstock component; (2) smelting, refining, reduction, or alloying; (3) production and sale of the metal as a primary product, as opposed to castings or formed products with an intended function (i.e., sand or die-cast engine parts or extruded cable and pipe). Our operations do not meet any of these three specifications.

Response #1

Fort Wayne Foundry has provided information to OAM stating that as much as fifteen percent (15%) of the feedstock material can be post-consumer scrap. It is the OAM's position that the use of post-consumer scrap as part of the feedstock material classifies the facility as a secondary metal production facility. The use of post-consumer scrap can significantly increase particulate emissions above what would be emitted from a true die cast facility, which uses only pure ingot or billet or in-house scrap.

US EPA Region V has provided IDEM, OAM with a guidance memo to determine when a source should be classified as a secondary metal production facility. The memo supports OAM's position that Fort Wayne Foundry is a secondary metal production facility. A copy of this memo has been provided to Fort Wayne Foundry.

Comment #2

Regarding **A.2(7) and (8), and D.5, Emission Units Summary**, please indicate that the maximum capacities are "2.5 tons of aluminum per hour and 27.5 tons of sand per hour" for these processes.

Response #2

The requested changes have been made in both Section A.2 and Section D.5 of the permit.

Comment #3

Regarding **A.2(10), Emission Units Summary**, please change “the core making process, consisting of three (3) core making machines” to “three (3) core making systems”.

Response #3

The requested change has been made in Section A.2 of the permit.

Comment #4

Regarding **A.3(2)(c) and D.11, Specifically Regulated Insignificant Activities**, please change “controlled by a baghouse” to “controlled by a cyclone”.

Response #4

The requested change has been made in Section A.2 and Section D.11 of the permit.

Comment #5

Regarding **B.10(a), Certification**, the condition as written is overly broad. We would recommend that the following phrase be added to the beginning of the condition. *“Where specifically designated by this permit or required by an applicable requirement, application forms, reports,”*

Response #5

The OAM agrees that the addition of this phrase will clarify the intent of the condition. The requested change has been made.

Comment #6

Regarding **B.28, Credible Evidence**, we request that the condition be eliminated from the permit because it is beyond the State’s authority.

Response #6

IDEM now believes that this condition is not necessary and has removed it from the permit. The issues regarding credible evidence can be adequately addressed during a showing of compliance or noncompliance. Indiana’s statutes, and the rules adopted under their authority, govern the admissibility of evidence in any proceeding. Indiana law contains no provisions that limit the use of any credible evidence and an explicit statement is not required in the permit.

~~B.28—Credible Evidence [326 IAC 2-7-5(3)][62 Federal Register 8313][326 IAC 2-7-6]
Notwithstanding the conditions of this permit that state specific methods that may be used to assess compliance or noncompliance with applicable requirements, other credible evidence may be used to demonstrate compliance or non-compliance.~~

Comment #7

Regarding **C.18 (now renumbered as C.17), Compliance Monitoring Plan**, we do not believe that 40 CFR Part 70 or 326 IAC 2-7 provides any authority to require the preparation of a Compliance Response Plan (CRP) or to establish the basis for a violation of the permit for failure to conduct the identified response steps. Failure to take specific response steps should not be interpreted in any way as evidence of non-compliance with an underlying applicable requirement, which is implied by this permit condition. We request that all references to a CRP be eliminated from this condition.

Regarding **D.1.2, D.2.2, and D.3.3, Preventive Maintenance Plan**, a preventive maintenance plan (PMP) is required for emission control devices as specified at 326 IAC 1-6-3(a)(1). Our handling and charge processes, furnace systems, and pouring systems are uncontrolled and therefore do not have maintenance procedures that would be addressed by the Title V permitting program. We request that these sections be removed.

Response #7

IDEM has worked with members of the Clean Air Act Advisory Council's Permit Committee, Indiana Manufacturing Association, Indiana Chamber of Commerce and individual applicants regarding the Preventive Maintenance Plan, the Compliance Monitoring Plan and the Compliance Response Plan. IDEM has clarified the preventive maintenance requirements by working with sources on draft language over the past two years. The plans are fully supported by rules promulgated by the Air Pollution Control Board. The plans are the mechanism each Permittee will use to verify continuous compliance with its permit and the applicable rules and will form the basis for each Permittee's Annual Compliance Certification. Each Permittee's ability to verify continuous compliance with its air pollution control requirements is a central goal of the Title V and FESOP permit programs.

The regulatory authority for and the essential elements of a compliance monitoring plan were clarified in IDEM's Compliance Monitoring Guidance, in May 1996. IDEM originally placed all the preventive maintenance requirements in the permit section titled "Preventive Maintenance Plan." Under that section the Permittee's Preventive Maintenance Plan(PMP) had to set out requirements for the inspection and maintenance of equipment both on a routine basis and in response to monitoring. Routine maintenance was a set schedule of inspections and maintenance of the equipment. The second was inspection and maintenance in response to monitoring that showed that the equipment was not operating in its normal range. This monitoring would indicate that maintenance was required to prevent the exceedance of an emission limit or other permit requirement. The maintenance plan was to set out the "corrective actions" that the Permittee would take in the event an inspection indicated an "out of specification situation", and also set out the time frame for taking the corrective action. In addition, the PMP had to include a schedule for devising additional corrective actions for out of compliance situations that the source had not predicted in the PMP. All these plans, actions and schedules were part of the Preventive Maintenance Plan, with the purpose of maintaining the Permittee's equipment so that an exceedance of an emission limit or violation of other permit requirements could be prevented.

After issuing the first draft Title V permits on public notice in July of 1997, IDEM received comments from members of the regulated community regarding many of the draft permit terms, including the PMP requirements. One suggestion was that the corrective action and related schedule requirements be removed from the PMP requirement and placed into some other requirement in the permit. This suggestion was based, in some part, on the desire that a Permittee's maintenance staff handle the routine maintenance of the equipment, and a Permittee's environmental compliance and engineering staff handle the compliance monitoring and steps taken in reaction to an indication that the facility required maintenance to prevent an environmental problem.

IDEM carefully considered this suggestion and agreed to separate the "corrective actions" and related schedule requirements from the PMP. These requirements were placed into a separate requirement, which IDEM named the Compliance Response Plan (CRP). In response to another comment, IDEM changed the name of the "corrective actions" to "response steps." That is how the present CRP requirements became separated from the PMP requirement, and acquired their distinctive nomenclature.

Other comments sought clarification on whether the failure to follow the PMP was violation of the permit. The concern was that a Permittee's PMP might call for the Permittee to have, for example, three "widget" replacement parts in inventory. If one widgets was taken from inventory for use in maintenance, then the Permittee might be in violation of the PMP, since there were no longer three widgets in inventory, as required by the PMP. Comments also expressed a view that if a maintenance employee was unexpectedly delayed in making the inspection under the PMP's schedule, for example by the employee's sudden illness, another permit violation could occur, even though the equipment was still functioning properly.

IDEM considered the comments and revised the PMP requirement so that if the Permittee fails to follow its PMP, a permit violation will occur only if the lack of proper maintenance causes or contributes to a violation of any limitation on emissions or potential to emit. This was also the second basis for separating the compliance maintenance response steps from the PMP and placing them in the Compliance Response Plan (CRP). Unlike the PMP, the Permittee must conduct the required monitoring and take any response steps as set out in the CRP (unless otherwise excused) or a permit violation will occur.

The Compliance Monitoring Plan is made up of the PMP, the CRP, the compliance monitoring and compliance determination requirements in section D of the permit, and the record keeping and reporting requirements in sections C and D. IDEM decided to list all these requirements under this new name, the Compliance Monitoring Plan (CMP), to distinguish them from the PMP requirements. The section D provisions set out which facilities must comply with the CMP requirement. The authority for the CMP provisions is found at 326 IAC 2-7-5(1), 2-7-5(3), 2-7-5(13), 2-7-6(1), 1-6-3 and 1-6-5.

Most Permittees already have a plan for conducting preventive maintenance for the emission units and control devices. It is simply a good business practice to have identified the specific personnel whose job duties include inspecting, maintaining and repairing the emission control devices. The emission unit equipment and the emission control equipment may be covered by a written recommendation from the manufacturer set out schedules for the regular inspection and maintenance of the equipment. The Permittee will usually have adopted an inspection and maintenance schedule that works for its particular equipment and process in order to keep equipment downtime to a minimum and achieve environmental compliance. The manufacturer may also have indicated, or the Permittee may know from experience, what replacement parts should be kept on hand. The Permittee may already keep sufficient spare parts on hand so that if a replacement is needed, it can be quickly installed, without a delay in the Permittee's business activities and without an environmental violation. For the most part, the PMP can be created by combining present business practices and equipment manufacturer guidance into one document, the Preventive Maintenance Plan (PMP).

The Permittee has 90 days to prepare, maintain and implement the PMP. IDEM is not going to draft the PMP. Permittees know their processes and equipment extremely well and are in the best position to draft the PMP. IDEM's air inspectors and permit staff will be available to assist the Permittee with any questions about the PMP. IDEM may request a copy of the PMP to review and approve.

The Preventive Maintenance Plan requirement must be include in every applicable Title V permit pursuant to 326 IAC 2-7-5(13) and for each FESOP permit pursuant to 326 IAC 2-8-4(9). Both of those rules refer back to the Preventive Maintenance Plan requirement as described in 326 IAC 1-6-3. This Preventive Maintenance Plan rule sets out the requirements for:

- (1) Identification of the individuals responsible for inspecting, maintaining and repairing the emission control equipment (326 IAC 1-6-3(a)(1)),
- (2) The description of the items or conditions in the facility that will be inspected and the inspection schedule for said items or conditions (326 IAC 1-6-3(a)(2)), and
- (3) The identification and quantification of the replacement parts for the facility which the Permittee will maintain in inventory for quick replacement (326 IAC 1-6-3(a)(2)).

It is clear from the structure of the wording in 326 IAC 1-6-3 that the PMP requirement affects the entirety of the applicable facilities. Only 326 IAC 1-6-3(a)(1) is limited, in that it requires identification of the personnel in charge of only the emission control equipment, and not any other facility equipment. The commissioner may require changes in the maintenance plan to reduce excessive malfunctions in any control device or combustion or process equipment under 326 IAC 1-6-5.

The CRP requirement of response steps and schedule requirements are another example of documenting procedures most Permittees already have developed in the course of good business practices and the prevention of environmental problems. Equipment will often arrive with the manufacturer's trouble shooting guide. It will specify the steps to take when the equipment is not functioning correctly. The steps may involve some initial checking of the system to locate the exact cause, and other steps to place the system back into proper working order. Using the trouble shooting guide and the Permittee's own experience with the equipment, the steps are taken in order and as scheduled until the problem is fixed.

A Permittee will likely already have a procedure to follow when an unforeseen problem situation occurs. The procedure may list the staff to contact in order to select a course of action, or other step, before the equipment problem creates an environmental violation or interrupts the Permittee's business process.

The Compliance Monitoring Plan (CMP) is consistent with IDEM's Compliance Monitoring Guidance released in May of 1996. The guidance discusses corrective action plans setting out the steps to take when compliance monitoring shows an out of range reading (Guidance, page 13). Some of the terminology has changed, as a result of comments from regulated sources, but the requirements in the permit do not conflict with the guidance. There are no changes in the conditions.

Comment #8

Regarding **C.23(a), General Reporting Requirements**, 326 IAC 2-7-5(3)(C) requires submittal of monitoring reports at least every six months. Under this permit, we are required to submit an annual Compliance Certification, a quarterly Compliance Monitoring Report, and a semiannual Deviation Report. We believe that semiannual Compliance Monitoring Report submittal is the proper frequency until a more frequent submittal is specifically requested by the administrator. In addition, we believe that quarterly Compliance Monitoring Report submittal represents an unnecessary burden on our staff considering the excellent compliance history at this source. We request that Compliance Monitoring Reports and Deviation Reports be required on a semiannual basis.

Response #8

The purpose of the compliance monitoring report is so that the OAM can make sure that the source is implementing all of the required compliance monitoring and that there are not excessive deviations from the normal operating conditions of the equipment, such as excessive "abnormal" visible emissions notations. The OAM believes that quarterly compliance monitoring reporting and deviation reports are a reasonable requirement. There have been no changes to the permit as a result of this comment.

Comment #9

Regarding **D.2.3, Testing Requirements**, we believe that the requirement to retest uncontrolled furnace emissions in 5 years should be determined when the Title V permit is renewed. In addition, this is not a performance test on control equipment, but a test to verify a process specific emission factor. It is extremely unlikely that emissions on an uncontrolled pounds per ton basis will vary significantly after five years of operation. It is more likely that ongoing process refinement will result in a decrease of uncontrolled emissions on a pounds per ton basis. We request that the requirement to retest uncontrolled furnace emissions in 5 years be deleted from the permit.

Response #9

The OAM agrees that the testing may not need to be performed again in five years. The OAM will

review the test results and determine at the time of permit renewal whether another stack test is necessary on one or more of the furnaces. The statement that the tests shall be repeated at least once every five years has been removed from Condition D.2.3.

Comment #10

Regarding **D.2.5, Record Keeping Requirements**, reverberatory furnaces are not charged discrete amounts of material following a specified charge frequency. A charge-melt-empty methodology is employed for induction and crucible furnaces. Because of the reverberatory operational design, we cannot charge single, large, easily weighed amounts of each separate charge material as would be required to track the weight percent of post consumer scrap each time a furnace is charged. A reverberatory furnace is intermittently charged the various charge materials throughout the day. For each shift of operation, the furnace foreman is issued a charge specification sheet that details the charge materials that will be required to be fed over the eight hour shift. This foreman is responsible for charging an even distribution of these materials throughout the shift. This ensures that the metal will have the consistent and proper chemical composition that is required for quality castings. Because of this, we request that the permit base the weight percent of post consumer scrap in the total charge on a half-shift, or four hour basis.

Response #10

The OAM agrees that the suggested method of documenting post-consumer scrap usage is more practical and feasible in this particular operation. The requirement has been changed to require recordkeeping of the amount of post-consumer scrap charged to the furnace every four hour period. Part (a) of the condition has been revised as follows:

D.2.5 Record Keeping Requirements

-
- (a) To document compliance with Condition D.2.1(c), the Permittee shall maintain records of the amount of post consumer scrap charged to each of the furnaces ~~each time that each of the furnaces is charged~~ **every four hours** (as a weight percent of the total charge to each furnace **during that time period**).

Comment #11

Regarding **D.4, D.5, and D.6**, we request that the emissions from the cooling, shakeout knockout, and sand systems installed in 1978 be limited as shown in the Requested Control Efficiencies table. These changes, as shown, do not represent a relaxation of the total lbs/hr emission restriction.

Requested Control Efficiencies

System	Pollutant	Uncontrolled Emissions (lbs/hr)	Control Efficiency (%)	Controlled Emissions Limit (lbs/hr)	Controlled Emissions Limit (tons/yr)
Cooling, Hunter #2	PM	3.50	50.0	1.75	7.67
	PM10	3.50	50.0	1.75	7.67
Shakeout Knockout, Hunter #2	PM	8.00	0.00	8.00	35.04
	PM10	5.60	0.00	5.60	24.53
Sand System	PM	180.0	98.9	2.05	8.99
	PM10	27.0	92.4	2.05	8.99
		Total emissions using new control efficiencies:	PM PM10	11.8 9.40	51.70 41.19
		Total emissions as limited by permit:	PM PM10	11.95 11.95	52.33 52.33

Response #11

The OAM agrees that these changes can be made without triggering the applicability of PSD or increasing the potential to emit above levels allowed by the draft permit. The requested changes have been made, except that the sand system is limited to 1.99 pounds per hour instead of 2.05 pounds per hour. See Appendix A for detailed calculations.

In order to render the requirements of PSD not applicable Fort Wayne Foundry is requesting a more stringent limit on the sand handling system in exchange for not having to control the shakeout system. In order to ensure compliance with the PM and PM10 limits on the sand handling system, the OAM has decided to require a stack test for PM and PM10 for the sand handling system. Condition D.6.3 has been changed as follows:

D.6.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.6.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.~~ **Within 180 days after issuance of this permit, the Permittee shall perform PM and PM10 testing using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.6.1 (a) and (b). This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.**

Comment #12

Regarding **D.4.5, and D.5.5, Particulate Matter**, the baghouses controlling the cooling and shakeout knockout systems are not required for compliance with 326 IAC 6-3-2(c). We therefore request that the requirement for baghouse operation at all times during system operation be removed for the C-1 cooling system and the SK-1 and SK-2 shakeout knockout zones. These systems do not have particulate emission limits beyond 326 IAC 6-3-2(c).

Regarding **A.2(7), A.2(8), and D.5, Emission Units Summary**, the baghouses controlling the cooling and shakeout knockout systems are not required for compliance with 326 IAC 6-3-2(c). Please revise the

descriptions to indicate that emissions from the SK-1 and SK-2 shakeout systems are either controlled by baghouse CD-1 and exhausted through stack CD-1, or are uncontrolled and either externally or internally vented.

Response #12

The OAM agrees that the baghouse operation is not required in order for the C-1 cooling line and the shakeout systems to comply with the requirements of 326 IAC 6-3-2 (Process Operations). By increasing the required control efficiency for the baghouse control on the sand system (as requested in Comment #10), the total potential to emit from the source does not change by removing the requirement to operate the baghouse for the C-1 cooling line and the shakeout systems. Therefore, the OAM agrees to remove the requirement to operate the baghouse to control the C-1 cooling line and the shakeout systems. For clarification purposes, the descriptions for the units in Section A.2 of the permit now includes a statement that the operation of the baghouse to control these emission units is voluntary.

Comment #13

Regarding **D.4.6(a), D.5.6(a), and D.6.5(a), Visible Emissions Notations**, we believe that daily VE notation is excessive for our operation. On a day to day basis, our production and associated emissions are relatively constant and do not suffer from radical changes. A weekly observation cycle would represent an acceptable interval, both from a compliance and work force standpoint. We request that our monitoring frequency be adjusted to require weekly visible emissions notations.

In addition, many of our stacks can only be seen from the roof of our building. We are concerned that our staff may be required to access the roof during periods of poor weather when personal safety is an issue. We wish to request that the following statement be added to the visible emissions notations conditions: "During periods of inclement weather, visible emissions notations will be performed weather permitting."

Response #13

Compliance monitoring conditions are in the permit in order to ensure continuous compliance with the requirements. The suggested wording would allow sporadic use of compliance monitoring, which would not accomplish the purpose of compliance monitoring. Baghouse failure can occur suddenly; therefore monitoring of baghouse operational parameters should be more frequently than weekly or even daily in such cases where a source operates more than one shift per day. The OAM believes that visible emissions notations once per operating shift are a reasonable requirement. Therefore, the requirements to perform visible emissions notations have been changed from daily to once per shift.

During times of inclement weather, it is permissible to take visible emissions notations from the ground, where even if the stack itself is not visible, excess opacity from a baghouse would be visible. This is not the preferred method during times of normal weather conditions; however to assure safety of the employees, the OAM will accept this method in place of viewing the actual stack, during times of inclement weather. During times of inclement weather when viewing of the actual stack is not practical, the records of the visible emissions notations should include a statement that visible emissions were observed from the ground where the stack itself was not clearly visible and should also include a description of the type of inclement weather which prevented viewing the stack from the rooftops.

Comment #14

Regarding **D.4.7, D.5.7, and D.6.6, Parametric Monitoring**, we have experienced very reliable baghouse operation which we attribute to good maintenance practices. We believe that a weekly recording frequency would be acceptable for baghouse pressure drop readings and request that this frequency be indicated in the permit.

Response #14

Monitoring of the static pressure drop can alert the operator to relative changes (such as dust cake resistance) over a period of time. The operator can use this information to chart trends and determine if the unit is operating within the optimal range as determined by baseline testing of the unit and manufacturer's specifications. Pressure drop is an indicator of a variety of conditions within the baghouse. Any deviations from the normal operational range of the unit, whether gradual or sudden, should alert the operator that the unit needs maintenance. The Compliance Response Plan should include Response steps to anticipate corrective actions when abnormal conditions arise. Both gradual and sudden changes in the pressure drop could result in damage to the bags or baghouse if not properly addressed. Therefore, the OAM believes that pressure drop readings should be taken at least once per day. The requirements to measure the pressure drops across the baghouses will remain unchanged in the permit.

Comment #15

Regarding **D.4.9(a), D.5.9(a), and D.6.8(a), Broken Bag or Failure Detection**, conditions requiring shutdown of control equipment during malfunction conditions are specifically covered by section B.13, Emergency Provisions. Considering that the Emergency Provisions are applicable source wide for any type of control equipment, and have been included as a B section, we request these D section conditions be removed from the permit.

Response #15

These conditions have been modified to clarify that if the baghouse failure qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions, then operations can continue. Modified Condition D.4.9 is shown below. Condition D.6.8 has also been modified as shown below. Condition D.5.9 has been deleted from the permit since calculations show that the baghouse is not necessary in order to comply with any of the emission limits in Section D.5 of the permit.

D.4.9 Broken or Failed Bag or Failure Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. ~~For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.~~ **Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).**
- (b) ~~Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion.~~ **For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).**

Comment #16

Regarding **D.4.10, D.5.10, and D.6.9, Record Keeping Requirements**, condition (b)(1)(B), baghouse CD-1 does not have distinct cleaning cycles that can be noted. Also, because there are not distinct cycles, there is not a period during which a differential pressure can be recorded. The pulse cleaning is a continually occurring process that rotates through the different areas of the baghouse. We request that these requirements be removed.

Response #16

The purpose of the condition is to ensure that the cleaning cycle on the baghouse is operating properly. Since this baghouse is designed so that the cleaning cycle is continuous, the OAM agrees that it is not necessary to document the frequency of the cleaning cycle. The pressure drop readings will be sufficient to determine if the cleaning cycle is operating. Therefore D.4.10(b)(1)(B) and D.6.9(b)(1)(B) have been deleted from the permit.

Comment #17

Regarding **D.4.10, D.5.10, and D.6.9, Record Keeping Requirements**, conditions (3), (4), (5), and (7), we are not certain what is specifically required. We believe that it is likely that these are items that are already contained in our preventive maintenance plans. Condition B.12 requires that Preventive Maintenance Plans be developed. We believe that these D section requirements are duplicative of the requirements of section B.12, and request these recordkeeping requirements be removed.

Response #17

Condition D.4.10 (b)(2) requires documentation of all response steps implemented, per event. This would include anything that was done in response to an out of range reading, such as an out of range pressure drop reading or observation of abnormal visible emissions.

Condition D.4.10(b)(3) requires that Operation and Compliance Response logs, including work purchase orders shall be maintained. This includes proof that such a response was actually taken, such as a purchase order for a new baghouse part to replace a broken one observed during a baghouse inspection in response to observing abnormal visible emissions.

Condition D.4.10(b)(4) requires maintaining Quality Assurance/quality Control (QA/QC) procedures. This is in reference to pressure gauges or other equipment used in complying with compliance monitoring requirements. For example, the Permittee should maintain a record of the procedures used to calibrate the pressure gauges used to read the differential static pressure across the baghouses.

Condition D.4.10(b)(7) requires maintaining an equipment "troubleshooting" contingency plan. This is documentation of the Compliance Response Plan, which states what the Permittee will do in cases where compliance monitoring indicates a potential problem or abnormal situation. For example, this plan would state what action should be taken if the pressure drop reading is above the indicated range.

Condition B.12 requires the Permittee to prepare and maintain a Preventive Maintenance Plan (PMP). It does not specifically state what the PMP should include for specific control devices. The OAM agrees that it is likely that some of the requirements of Condition D.4.10(b) will be contained in the PMP; however the OAM does not review the PMP for each source. The requirements of condition D.4.10(b) help to ensure that even if the PMP is inadequate, necessary maintenance will be performed on the baghouse and documented accordingly. No changes have been made to Condition D.4.10(b)(2), (3), (4), or (7).

Comment #18

Regarding **D.4.10, D.5.10, and D.6.9, Record Keeping Requirements**, condition (8), we do not have vents that we could redirect and request that these recordkeeping requirements be removed.

Response #18

The OAM has removed the requirement to keep records of the dates that vents are redirected.

Comment #19

Regarding the **TSD**, we request that the following items be updated to match the permit:

- (1) Update pouring and cooling descriptions by replacing “station” with “system”.
- (2) Base 326 IAC 6-3-2(c) particulate emission limits for pouring and cooling systems on 30 tons/hr throughput.
- (3) The North and South shotblasts are controlled by baghouses CD-2 and CD-3, respectively.

Response #19

The OAM agrees that the above statements are correct. The final permit reflects the correct descriptions of these units. However, no changes are made to the TSD after the public comment period. The TSD remains the same in order to keep documentation of how the draft permit was produced. This addendum explains any necessary changes to the permit after the comment period. There is no need to make any changes to the TSD at this point.

Comment #20

Regarding **D.3.6, D.4.6 and D.6.6, Parametric Monitoring**, we have not seen evidence that semiannual pressure gauge calibration is necessary and believe that annual calibration would be more than adequate. We have provided a letter from Dwyer, our gauge supplier, stating that an annual calibration frequency is recommended. Please note that Dwyer recommends a semiannual calibration frequency for critical applications, such as nuclear power plants. We request that our permit indicate an annual calibration frequency.

Response #20

Since the Permittee has provided documentation from the pressure gauge supplier indicating that calibration is only necessary once per year for this type of gauge in this particular operation, the OAM agrees to change the requirement in the permit from once every six months to once per year.

Upon further review, the OAM has decided to make the following changes to the permit (additions are shown in bold, deletions are shown as strikeouts).

Title Page

1. The rule cite for ENSR has been removed from the second paragraph of the title page. This rule has been repealed.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and ~~326 IAC 2-1-3.2~~ as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Section A

1. The description of the source in Section A.1 of the permit now specifies that the source is a secondary metal production facility, which is one of the 28 listed source categories, pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

2. A.1 (General Information) the IDEM, OAM is now including the phone number in the general information. This will help in case OAM needs to contact the source regarding their reporting requirements.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary ~~aluminum foundry~~ **secondary aluminum metal production facility, which is one of the 28 listed source categories, pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).**

Responsible Official: Mr. Curt French, Vice President - Foundry Operations
Source Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Mailing Address: 4910 Lima Road, Fort Wayne, Indiana 46808
Phone Number: Kathy McCrudden - (219) 483-0382
SIC Code: 3365
County Location: Allen
County Status: Attainment for all criteria pollutants
Source Status: Part 70 Permit Program
Major Source under PSD Rules;
Major Source, Section 112 of the Clean Air Act

3. A.3 (Specifically Regulated Insignificant Activities) now lists the rule cite that is making the insignificant activity "specifically regulated." This will clarify why certain insignificant activities are included in the permit.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 including one (1) parts washer, constructed in 1991; **[326 IAC 8-3-2] [326 IAC 8-3-5]**
- (2) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. Processes in this category which are located at the source include the following:
 - (a) the shotblasting operation, consisting of two (2) shotblasters, identified as the North and South Shotblasters, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a baghouse, designated as CD-2 and CD-3; **[326 IAC 6-3-2]**
 - (b) the finishing operations, including ten (10) belt grinders and two (2) disc grinders, identified as the North and South finishing lines, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a cyclone; **[326 IAC 6-3-2]** and
 - (c) pattern shop woodworking operations controlled by a cyclone. **[326 IAC 6-3-2]**

Section B

1. B.1 (Permit No Defense) 326 IAC 2-1 has been repealed.

B.1 Permit No Defense ~~[326 IAC 2-1-10]~~ [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those

applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.

- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with ~~326 IAC 2-7-3.2~~ or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

2. B.9 (Compliance with Permit Conditions) the following language has been added to show that conditions that are not federally enforceable may not constitute a violation of the Clean Air Act.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, **except those specifically designated as not federally enforceable**, constitutes a violation of the Clean Air Act and is grounds for:

- (1) Enforcement action;
- (2) Permit termination, revocation and reissuance, or modification; or
- (3) Denial of a permit renewal application.

- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. B.10 (Certification) has been revised since there are currently no certifications that would not be required to be certified by the Responsible Official.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, **any** application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, ~~and any other certification required under this permit~~, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.

- (c) A responsible official is defined at 326 IAC 2-7-1(34).

4. The OAM has decided that although we have the authority, it may be cumbersome for the source to list all insignificant activities in the annual compliance certification, so the requirement is being deleted from B.11(Annual Compliance Certification) of the permit.

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (c) The annual compliance certification report shall include the following:

- (1) The identification of each term or condition of this permit that is the basis of the certification;
- (2) The compliance status;
- (3) Whether compliance was based on continuous or intermittent data;
- (4) The methods used for determining compliance of the source, currently and over the

reporting period consistent with 326 IAC 2-7-5(3); **and**

~~(5)~~ Any insignificant activity that has been added without a permit revision; and

~~(6)~~**(5)** Such other facts, as specified in Sections D of this permit, as IDEM, OAM, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

5. B.12 (Preventive Maintenance Plan) paragraph (b) and (c) have been revised.

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that ~~lack of proper maintenance~~ **failure to implement the Preventive Maintenance Plan** does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP’s shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. **IDEM, OAM, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.**

6. B.13 (Emergency Provisions) the rule cite in paragraph (e) has been revised to reflect the new Article 2 rule.

B.13 Emergency Provisions [326 IAC 2-7-16]

(e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC ~~2-7-4-~~
~~(e)(9)~~ **2-7-4(c)(10)** be revised in response to an emergency.

7. B.14 (Permit Shield) paragraph (d) has been revised to clarify the intent of the condition. The rule cite in paragraph (h) has been revised to reflect the new Article 2 rule.

B.14 Permit Shield [326 IAC 2-7-15]

(d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. **Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.**

(h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, has issued the modification. [326 IAC ~~2-7-12(b)(8)~~ **2-7-12(b)(7)**]

8. B.16 (Deviations from Permit Requirements and Conditions) paragraph (b)(3) has been revised to be consistent with B.12.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

- (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless ~~lack of~~ **maintenance such failure** has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.
9. B.18(b)(1)(B) (Permit Renewal) 326 IAC 2-5 has been repealed.

B.18 Permit Renewal [326 IAC 2-7-4]

- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due. ~~[326 IAC 2-5-3]~~
10. B.21 (Changes Under Section 502(b)(10) of the Clean Air Act) has been deleted and B.22(b) (Operational Flexibility) has been revised as follows. Both conditions refer to the same rule and it makes more sense for them to be combined. In Condition B.22 (re-numbered B.21)(Operational Flexibility) 326 IAC 2-1 has been replaced with 326 IAC 2-1.1 in B.22(a)(2).

~~B.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(b)]~~

~~The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:~~

- ~~(a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.~~
- ~~(b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).~~

B.22 Operational Flexibility [326 IAC 2-7-20]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC ~~2-4~~ **2-1.1** has been obtained;
- (b) ~~For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:~~
 - (b) **The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:**
 - (1) **The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).**
 - (2) **For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:**
 - (1)(i) A brief description of the change within the source;

- ~~(2)~~(ii) The date on which the change will occur;
- ~~(3)~~(iii) Any change in emissions; and
- ~~(4)~~(iv) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

11. B.23 (re-numbered B.22)(Construction Permit Requirement) the referenced statute has been repealed; therefore this condition has been revised.

B.22 Construction Permit Requirement [326 IAC 2]

~~Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, A~~ modification, construction, or reconstruction shall be approved ~~as if~~ required by and in accordance with **the applicable provisions of 326 IAC 2.**

12. In order to clarify confidentiality B.24 (re-numbered as B.23)(Inspection and Entry) has been revised. OAM also determined that subpart (1) and (2) of paragraph (e) were unnecessary; therefore they have been deleted.

B.23 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, **and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such**, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

[326 IAC 2-7-6(6)]

~~(1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, nor an authorized representative, may disclose the information unless and until IDEM, OAM, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]~~

~~(2) The Permittee, and IDEM, OAM, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]~~

13. B.25 (re-numbered B.24) (Transfer of Ownership or Operation) 326 IAC 2-1 has been repealed therefore this condition has been modified.

~~B.25 — Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]~~

~~— Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:~~

- ~~(a) — In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.~~
- ~~(b) — The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~
- ~~(c) — IDEM, OAM, shall reserve the right to issue a new permit.~~

B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) **The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.**
- (b) **Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:**
- Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015**
- The application which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).**
- (c) **The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]**

14. B.26 (re-numbered as B.25)(Annual Fee Payment) (b) has been revised.

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (b) **Failure Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.**
15. B.27 (re-numbered as B.26)(Enhanced New Source Review) has been replaced with a new condition because ENSR has been repealed.

~~B.27 — Enhanced New Source Review [326 IAC 2]~~

~~— The requirements of the construction permit rules in 326 IAC 2 are satisfied by this permit for any previously unpermitted facilities and facilities to be constructed within eighteen (18) months after the date of issuance of this permit, as listed in Sections A.2 and A.3.~~

B.26 Advanced Source Modification Approval [326 IAC 2-7-5(16)]

The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit

modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3 if such modifications occur during the term of this permit.

Section C

1. C.2 (Opacity) has been revised as follows to reflect the current rule language.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (~~Visible Emissions~~ **Opacity Limitations**), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), ~~visible emissions opacity~~ shall meet the following, unless otherwise stated in this permit:

- (a) ~~Visible emissions Opacity~~ shall not exceed an average of forty percent (40%) ~~opacity in twenty-four (24) consecutive readings,~~ **any one (1) six (6) minute averaging period** as determined in 326 IAC 5-1-4.
- (b) ~~Visible emissions Opacity~~ shall not exceed sixty percent (60%) ~~opacity~~ for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) **as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor** in a six (6) hour period.

2. C.4(Incineration) has been revised to say that 326 IAC 9-1-2 is not federally enforceable.

C.4 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. **The provisions of 326 IAC 9-1-2 are not federally enforceable.**

3. C.6 (Operation of Equipment) has been revised since there may be control devices that are not required to be used to assure compliance with emission limitations.

C.6 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided in this permit, All air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

4. C.8(Asbestos Abatement Projects) paragraph (e) has been revised to more accurately reflect the rule.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the **applicable** emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4, emission control requirements are ~~mandatory~~ **applicable** for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

5. C.9 (Performance Testing) has been revised to specify the locations of applicable procedures and analysis methods for performance testing.

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing ~~methods~~ **any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures** approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the ~~Commissioner~~ **IDEM, OAM**, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

6. C.11 (Compliance Monitoring) has been revised to clarify when compliance monitoring must begin.

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. **All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.** The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment ~~no more than ninety (90) days after receipt of this permit.~~ If due to circumstances beyond its control, ~~this schedule cannot be met~~ **that equipment cannot be installed and operated within ninety (90) days**, the Permittee may extend the compliance schedule **related to the equipment for** an additional ninety (90) days provided the Permittee notifies:

7. C.13 (Monitoring Methods) has been revised to clarify that the monitoring and testing requirements are located in Section D of the permit.

C.14 Monitoring Methods [326 IAC 3]

Any monitoring or testing **required by Section D** ~~performed to meet the applicable requirements~~ of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

8. The first paragraph of C.16 (Risk Management Plans) has been revised to more closely match the rule language.

C.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present ~~in a process at a source~~ in more than the ~~a~~ threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) Verify to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.

- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- 9. C.21 (General Record Keeping Requirements) (c)(4) has been modified to match B.12.

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that ~~improper maintenance failure to implement the Preventive Maintenance Plan~~ did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator’s standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

- 10. C.22 (General Reporting Requirements) has been changed as follows to clarify exactly which documents require certification by the responsible official.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. **The Compliance Monitoring Report shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).**

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. **The reports do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).**

- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. **The Emergency/Deviation Occurrence Report does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).**
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

~~The documents submitted pursuant to this condition do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).~~

Section D

1. The facility description boxes in each D Section of the permit have been revised to clarify that descriptive information is not federally enforceable. The facility description box for Section D.1 is shown as an example.

Facility Description [326 IAC 2-7-5(15)] the scrap and charge handling process, constructed in 1985, with a maximum charge rate of 8 tons of aluminum ingots and scrap per hour, with emissions uncontrolled.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

2. D.1.3, D.3.4, D.4.4, D.5.4, D.7.3, D.9.3, D.10.3, and D.11.3 (Testing Requirements) have been modified to delete the phrase "at any specific time." Revised condition D.1.3 is shown as an example.

D.1.3 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing ~~at any specific time~~ when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

3. D.2.4, D.2.5, D.4.6, D.4.10, D.6.5, and D.6.9 have been revised to require visible emissions notations once per shift instead of once per day. D.2.4 and D.2.5 are shown examples

D.2.4 Visible Emissions Notations

(a) ~~Daily~~ Visible emission notations of each of the furnace stack exhausts shall be performed **once per shift** during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

D.2.5 Record Keeping Requirements

(b) To document compliance with Condition D.2.4, the Permittee shall maintain records of ~~daily~~ visible emission notations of the furnace stack exhausts **once per shift**.

4. D.4.5, D.6.4, D.9.4, D.10.4, and D.11.4 (Particulate Matter) have been revised to clarify for which facilities the control is required. D.6.4 (Particulate Matter) has also been revised to delete the phrase "and exhausting to the outside atmosphere." Condition D.6.4 is shown as an example.

D.6.4 Particulate Matter (PM)

The baghouse for PM control shall be in operation **and control emissions from the sand handling system** at all times when the sand handling system are in operation ~~and exhausting to the outside atmosphere~~.

5. D.8.1 (Volatile Organic Compounds) "matter" should be "manner".

D.8.1 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator shall:

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a ~~matter~~ **manner** that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

6. In Condition D.8.2(a)(2) and (5) (Volatile Organic Compounds) the extra parenthesis after

“mercury” has been removed.

D.8.2 Volatile Organic Compounds (VOC)

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):

Reporting Forms

- 1. On the Emergency/Deviation Occurrence Report Form, the rule cite 326 IAC 2-7-5(3)(c) should have been a capital C, 326 IAC 2-7-5(3)(C).

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
9 1.	This is an emergency as defined in 326 IAC 2-7-1(12)
C	The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
C	The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9 2.	This is a deviation, reportable per 326 IAC 2-7-5(3)(c) 326 IAC 2-7-5(3)(C)
C	The Permittee must submit notice in writing within ten (10) calendar days

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Part 70 Operating Permit and Enhanced New Source Review (ENSR)

Source Background and Description

Source Name: Fort Wayne Foundry - Lima Road Division
Source Location: 4910 Lima Road, Fort Wayne, Indiana 46808
County: Allen
SIC Code: 3365
Operation Permit No.: T003-7528-00007
Permit Reviewer: Nisha Sizemore

The Office of Air Management (OAM) has reviewed a Part 70 permit application from Fort Wayne Foundry - Lima Road Division relating to the operation of an aluminum foundry.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (1) the scrap and charge handling process, constructed in 1985, with a maximum charge rate of 8 tons of aluminum ingots and scrap per hour, with emissions uncontrolled;
- (2) the aluminum melting process, consisting of two (2) natural gas-fired reverberatory furnaces, identified as RF-1 and RF-2, constructed in 1986 and 1985, respectively, each with a maximum charge rate of 4 tons per hour of aluminum ingots and scrap and each with a maximum production rate of 2.5 tons of melted aluminum per hour, both uncontrolled, and exhausting through stacks D1 and D2, respectively;
- (3) one (1) pouring station, identified as P-1, constructed in 1979, with a maximum capacity of 2.5 tons of melted aluminum per hour, with emissions uncontrolled, and exhausting inside the building;
- (4) one (1) pouring station, identified as P-2, constructed in 1978, with a maximum capacity of 2.5 tons of melted aluminum per hour, with emissions uncontrolled, and exhausting inside the building;
- (5) one (1) castings cooling station, identified as C-1, constructed in 1979, with a maximum capacity of 2.5 tons of aluminum castings per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;
- (6) one (1) castings cooling station, identified as C-2, constructed in 1978, with a maximum capacity of 2.5 tons of aluminum castings per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;
- (7) one (1) shakeout knockout zone, identified as SK-1, constructed in 1979, with a maximum capacity of 30 tons of sand per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;

- (8) one (1) shakeout knockout zone, identified as SK-2, constructed in 1978, with a maximum capacity of 30 tons of sand per hour, with emissions controlled by baghouse CD-1, and exhausting through stack CD-1;
- (9) one (1) sand handling system, identified as SH-1, constructed in 1978, with a maximum capacity of 50 tons of sand per hour, controlled by baghouse CD-1, and exhausting through stack CD-1; and
- (10) the core making process, consisting of three (3) core making machines, identified as ISO-1 through ISO-3, constructed in 1978, 1981, and 1982, respectively, each with a maximum capacity of 1 ton of sand per hour, all uncontrolled and exhausting through stack I-1.

Unpermitted Emission Units and Pollution Control Equipment Requiring ENSR

The source also consists of the following unpermitted facilities/units:

- (1) three (3) core making machines, identified as ISO-4 through ISO-6, constructed in 1988, 1993, and 1994, respectively, each with a maximum capacity of 1 ton of sand per hour, all uncontrolled and exhausting through stack I-1.

New Emission Units and Pollution Control Equipment Requiring ENSR

There are no new facilities to be reviewed under the ENSR process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour;
- (2) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (3) Storage tanks with capacity less than or equal to 1000 gallons and annual throughputs less than 12,000 gallons;
- (4) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (5) Refractory storage not requiring air pollution control equipment;
- (6) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (7) Machining where an aqueous cutting coolant continuously floods the machining interface;
- (8) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 including one parts washer, constructed in 1991;
- (9) Cleaners and solvents characterized as follows:
 - (a) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi

- measured at 38 degrees C (100°F) or;
- (b) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (10) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment;
 - (11) Any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs;
 - (12) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs;
 - (13) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
 - (14) Underground conveyors;
 - (15) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment;
 - (16) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower;
 - (17) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. Processes in this category which are located at the source include the following:
 - (a) the shotblasting operation, consisting of two (2) shotblasters, identified as the North and South Shotblasters, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a baghouse, designated as CD-2 and CD-3;
 - (b) the finishing operations, including ten (10) belt grinders and two (2) disc grinders, identified as the North and South finishing lines, each with a maximum capacity of 2.5 tons of aluminum castings per hour, each controlled by a cyclone; and
 - (c) pattern shop woodworking.
 - (18) A laboratory as defined in 326 IAC 2-7-1(21)(D);
 - (19) Hot box core making;
 - (20) Sand reclamation screen;
 - (21) Core assembly glues; and
 - (22) Lake sand silo.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (1) OP 02-01-91-0686, issued on April 16, 1987; and
- (2) a registration, issued on August 13, 1986.

All conditions from previous approvals were incorporated into this Part 70 permit.

Enforcement Issue

- (a) IDEM is aware that some of the equipment has been constructed prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled *Unpermitted Emission Units and Pollution Control Equipment Requiring ENSR*.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on December 12, 1996. Additional information was received on March 23, 1998, May 12, 1998, July 9, 1998, and August 5, 1998.

A notice of completeness letter was mailed to the source on January 17, 1997.

Emission Calculations

See Appendix A of this document for detailed emissions calculations.

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as “emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility.”

Pollutant	Potential Emissions (tons/year)
PM	643
PM-10	643
SO ₂	4.38
VOC	125
CO	1.20
NO _x	51.66

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential Emissions (tons/year)
Acrolein	less than 10
Benzene	less than 10
Formaldehyde	less than 10
Naphthalene	less than 10
Phenol	less than 10
Toluene	less than 10
Triethylamine	greater than 10
o-Xylene	less than 10
m-Xylene	less than 10
Lead Compounds	less than 10
Cyanide Compounds	less than 10
TOTAL	greater than 25

- (a) The potential emissions (as defined in 326 IAC 1-2-55) of PM10 and VOC are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential emissions (as defined in 326 IAC 1-2-55) of any single HAP are equal to or greater than ten (10) tons per year and the potential emissions (as defined in 326 IAC 1-2-55) of a combination HAPs are greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1996 OAM emission data.

Pollutant	Actual Emissions (tons/year)
PM	95.07
PM-10	1.20
SO ₂	0.19
VOC	62.29
CO	1.20
NO _x	51.66
Lead	0.47

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
scrap and charge handling	72.3	72.3	0.00	0.00	0.00	0.00	0.00
reverberatory furnace RF-1	24.0	14.0	0.00	3.50	0.00	0.00	0.24
reverberatory furnace RF-2	24.0	14.0	0.00	3.50	0.00	0.00	0.24
pouring line P-1	165	165	0.22	0.00	0.00	0.11	0.96
pouring line P-2	165	165	0.22	0.00	0.00	0.11	0.96
cooling line C-1	165	165	0.22	0.00	0.00	0.11	0.96
cooling line C-2	165	165	0.22	0.00	0.00	0.11	0.96
knockout zone SK-1	175	175	0.00	7.93	0.00	0.00	3.64
knockout zone SK-2	175	175	0.00	7.93	0.00	0.00	3.64
sand handling	195	195	0.00	0.00	0.00	0.00	0.00
isocure core machines 4, 5, and 6	0.00	0.00	0.00	69.03	0.00	0.00	33.93
isocure core machine 3	0.00	0.00	0.00	23.01	0.00	0.00	11.31
isocure core machines 1 and 2	0.00	0.00	0.00	39.0	0.00	0.00	39.0
Total Emissions	1325.3	1295.3	2.88	153.9	0.00	0.44	95.84

County Attainment Status

The source is located in Allen County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Allen County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (326 IAC 12) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 1-5-2 (Emergency Reduction Plans)

The source has submitted an Emergency Reduction Plan (ERP) on December 12, 1996. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plans).

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This existing source is a major stationary source because it is one of the 28 listed source categories (secondary metal production) and at least one attainment regulated pollutant is emitted at a rate of 100 tons per year. This source has never been reviewed under the requirements of PSD.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of PM10 and VOC. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirements as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,

- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

State Rule Applicability - The scrap and charge handling process, constructed in 1985

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the scrap and charge handling process shall not exceed 16.5 pounds per hour when operating at a process weight rate of 8.0 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the scrap and charge handling process is in compliance with this requirement.

State Rule Applicability - Reverberatory furnace RF-1, constructed in 1986

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply to the furnace:

- (1) The PM emissions from the furnace shall not exceed 5.48 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (2) The PM₁₀ emissions from the furnace shall not exceed 3.20 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The furnace RF-1 has potential VOC emissions less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - Reverberatory furnace RF-2, constructed in 1985

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply to the furnace:

- (1) The PM emissions from the furnace shall not exceed 5.48 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (2) The PM₁₀ emissions from the furnace shall not exceed 3.20 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The furnace RF-2 has potential VOC emissions less than 25 tons per year. Therefore, the

requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - Pouring / Casting Station P-1, constructed in 1979

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the pouring station P-1 shall not exceed 37.8 pounds per hour when operating at a process weight rate of 27.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the pouring station P-1 is in compliance with this requirement.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The pouring station P-1 was constructed prior to 1980. Therefore, the requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - Pouring / Casting Station P-2, constructed in 1978

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the pouring station P-2 shall not exceed 37.8 pounds per hour when operating at a process weight rate of 27.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the pouring station P-2 is in compliance with this requirement.

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply:

- (1) The PM emissions from the P-2 pouring operation shall not exceed 10.5 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (2) The PM10 emissions from the P-2 pouring operation shall not exceed 5.15 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The pouring station P-2 was constructed prior to 1980. Therefore, the requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - Cooling Station C-1 controlled by baghouse CD-1, constructed in 1979

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the cooling station C-1 shall not exceed 37.8 pounds per hour when operating at a process weight rate of 27.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the cooling station C-1 is in compliance with this requirement.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The cooling station C-1 was constructed prior to 1980. Therefore, the requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - Cooling Station C-2 controlled by baghouse CD-1, constructed in 1978

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply:

- (1) The PM emissions from the P-2 cooling operation shall not exceed 0.35 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (2) The PM₁₀ emissions from the P-2 cooling operation shall not exceed 0.35 pounds per hour.
- (3) The baghouse CD-1 shall be in operation at all times the cooling station C-1 is in operation.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the cooling station C-2 shall not exceed 37.8 pounds per hour when operating at a process weight rate of 27.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Based on calculations made, the cooling station C-2 is in compliance with this requirement.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The cooling station C-2 was constructed prior to 1980. Therefore, the requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - Castings Shakeout, Knockout Zone SK-1, controlled by baghouse CD-1, constructed in 1979

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the castings shakeout knockout zone SK-1 shall not exceed 40.0 pounds per hour when operating at a process weight rate of 30.0 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight greater than 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Based on calculations made, the castings shakeout knockout zone SK-1 is in compliance with this requirement.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The castings shakeout knockout zone SK-1 was constructed prior to 1980. Therefore, the requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - Castings Shakeout, Knockout Zone SK-2, controlled by baghouse CD-1, constructed in 1978

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply:

- (1) The PM emissions from the castings shakeout, knockout zone SK-2 shall not exceed 0.80 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (2) The PM10 emissions from the castings shakeout, knockout zone SK-2 shall not exceed 0.80 pounds per hour.
- (3) The baghouse CD-1 shall be in operation at all times the castings shakeout, knockout zone SK-2 is in operation.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the castings shakeout knockout zone SK-2 shall not exceed 40.0 pounds per hour when operating at a process weight rate of 30.0 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight greater than 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the castings shakeout knockout zone SK-2 is in compliance with this requirement.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

The castings shakeout knockout zone SK-2 was constructed prior to 1980. Therefore, the requirements of 326 IAC 8-1-6 (BACT) do not apply. No other 326 IAC 8 rules apply.

State Rule Applicability - The sand handling system (SH-1) controlled by baghouse CD-1

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable, the following conditions shall apply:

- (1) The PM emissions from the sand handling system SH-1 shall not exceed 10.8 pounds per hour. This limit will also satisfy the requirements of 326 IAC 6-3-2 (Process Operations).
- (2) The PM10 emissions from the sand handling system SH-1 shall not exceed 10.8 pounds per hour.
- (3) The baghouse CD-1 shall be in operation at all times the sand handling system SH-1 is in operation.

Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 shall not apply.

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the sand handling system SH-1 shall not exceed 44.6 pounds per hour when operating at a process weight rate of 50.0 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight greater than 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the sand handling system SH-1 is in compliance with this requirement.

State Rule Applicability - Isocure Core Machines, ISO-1 and ISO-2, constructed in 1981

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The combined resin usage for isocure core machines ISO-1 and ISO-2 shall be limited to 191.41 tons per 12 consecutive month period. This usage limit is required to limit the potential to emit VOC to no greater than 39 tons per 12 consecutive month period. Compliance with this limit

makes 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable.

State Rule Applicability - Isocure Core Machines, ISO-3, ISO-4, ISO-5, and ISO-6, constructed in 1984, 1988, 1993, and 1994, respectively

326 IAC 8-1-6 (BACT)

Each core making machine has potential emissions less than 25 tons per year; therefore, the requirements of 326 IAC 8-1-6 (BACT) will not apply.

State Rule Applicability - The North Shotblaster, controlled by baghouse CD-1

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the north shotblaster shall not exceed 7.6 pounds per hour when operating at a process weight rate of 2.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the north shotblaster is in compliance with this requirement.

State Rule Applicability - insignificant degreasing operation, including 1 parts washer, constructed in 1991

326 IAC 8-3-2 (Cold Cleaner Operations)

Pursuant to this rule, the owner or operator shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent

volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

State Rule Applicability - The South Shotblaster, controlled by baghouse CD-1

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the south shotblaster shall not exceed 7.6 pounds per hour when operating at a process weight rate of 2.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the south shotblaster is in compliance with this requirement.

State Rule Applicability - The North Finishing Line, controlled by a cyclone, constructed in 1977

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the north finishing line shall not exceed 7.6 pounds per hour when operating at a process weight rate of 2.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the north finishing line is in compliance with this requirement. The cyclone shall be in operation at all times that the North Finishing Line is in operation, in order to comply with this limit.

State Rule Applicability - The South Finishing Line, controlled by a cyclone

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the south finishing line shall not exceed 7.6 pounds per hour when operating at a process weight rate of 2.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations made, the south finishing line is in compliance with this requirement. The cyclone shall be in operation at all times that the South Finishing Line is in operation, in order to comply with this limit.

State Rule Applicability - The pattern shop woodworking process

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule, the PM emissions from the pattern shop woodworking shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

Compliance Monitoring - The furnaces RF-1 and RF-2

The furnaces have applicable compliance monitoring conditions as specified below:

- (1) Within 180 days after issuance of this permit, the Permittee shall perform PM and PM10 testing using methods as approved by the Commissioner, in order to demonstrate compliance with the PSD limits specified in this permit. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

Compliance Monitoring - The baghouse CD-1, controlling the pouring/casting lines P-1 and P-2, the castings cooling stations C-1 and C-2, the shakeout knockout zones SK-1 and SK-2, and the sand handling process

The baghouse controlling the pouring/casting lines P-1 and P-2, the castings cooling stations C-1 and C-2, the shakeout knockout zones SK-1 and SK-2, and the sand handling process has applicable compliance monitoring conditions as specified below:

- (1) Daily visible emissions notations of the baghouse CD-1 stack exhaust shall be performed during normal daylight operations when each of the above processes are in operation. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
- (2) The Permittee shall maintain records of the daily visible emission notations of the baghouse CD-1 stack exhaust.
- (3) The Permittee shall record the total static pressure drop across the baghouse CD-1 used in conjunction with the above listed processes, at least once daily when each of the above listed processes is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse CD-1 shall be maintained within the range of 3.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.
- (4) An inspection shall be performed each calendar quarter of all bags controlling the pouring/casting lines P-1 and P-2, the castings cooling stations C-1 and C-2, the shakeout knockout zones SK-1 and SK-2, and the sand handling process when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.
- (5) In the event that bag failure has been observed:
 - (1) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.
 - (2) Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion
- (6) The Permittee shall maintain records of the results of the baghouse inspections.

These monitoring conditions are necessary because the baghouse controlling the pouring/casting lines P-1 and P-2, the castings cooling stations C-1 and C-2, the shakeout knockout zones SK-1 and SK-2, and the sand handling process must operate properly to ensure that each process complies with 326 IAC 6-3 (Process Operations) and/or 326 IAC 2-2 (PSD).

The Isocore Core Machines ISO-1 and ISO-2 have applicable compliance monitoring conditions as specified below:

- (1) The Permittee shall maintain records of the monthly resin usage from these two core machines. Quarterly reports shall be submitted to the OAM. These reports shall include the monthly resin usage from these two core machines in tons per month.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

This source will emit levels of air toxics greater than those that constitute major source applicability according to Section 112 of the 1990 Clean Air Act Amendments.

Conclusion

The operation of this aluminum foundry shall be subject to the conditions of the attached proposed Part 70 Permit No. T003-7528-00007.

Potential Emissions

Appendix A: Emission Calculations

Company Name: Fort Wayne Foundry - Lima Road Division
 Plant Location: 4910 Lima Road, Fort Wayne, Indiana 46808
 County: Allen
 Permit Reviewer: Nisha Sizemore
 Title V #: 003-7528
 Plt. ID #: 003-00007

** Process Emissions **

Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Scrap and Charge Handling	8	PM	0.60	21.02	21.02	none	
SCC# 3-04-003-15		PM-10	0.36	12.61	12.61		
AP-42 Ch. 12.10		SO2	0.00	0.00	0.00		
		NOx	0.00	0.00	0.00		
		VOC	0.00	0.00	0.00		
		CO	0.00	0.00	0.00		
		Lead	0.00	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates less than 30 tons per hour:

P= 8 tons/hr

limit = $4.1 \times (8^{0.67}) = 16.5 \text{ lb/hr}$ (allowable)

with potential:
 $21.0 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 4.8 \text{ lb/hr}$ (will comply)

Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Melting	4	PM	0.50	8.76	8.76	none	
Reverberatory Furnace RF-1		PM-10	0.50	8.76	8.76		
		SO2	0.00	0.00	0.00		
		NOx	0.00	0.00	0.00		
EPA SCC# 3-04-001-03		VOC	0.20	3.50	3.50		
		CO	0.00	0.00	0.00		
		Lead	0.00	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates less than 30 tons per hour:

P= 4 tons/hr

limit = $4.1 \times (4^{0.67}) = 10.4 \text{ lb/hr}$ (allowable)

with potential:

$8.8 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 2.0 \text{ lb/hr}$ (will comply)

Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Melting	4	PM	0.50	8.76	8.76	none	
Reverberatory Furnace RF-2		PM-10	0.50	8.76	8.76		
		SO2	0.00	0.00	0.00		
		NOx	0.00	0.00	0.00		
EPA SCC# 3-04-001-03		VOC	0.20	3.50	3.50		
		CO	0.00	0.00	0.00		
		Lead	0.00	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates less than 30 tons per hour:

P= 4 tons/hr

limit = $4.1 \times (4^{0.67}) = 10.4 \text{ lb/hr}$ (allowable)

with potential:

$8.8 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 2.0 \text{ lb/hr}$ (will comply)

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Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Pouring/Casting SCC# 3-04-003-18	2.5	PM	4.20	45.99	45.99	none	
		PM-10	2.06	22.56	22.56		
		SO2	0.02	0.22	0.22		
Pouring station P-1		NOx	0.01	0.11	0.11		
		VOC	0.00	0.00	0.00		
		CO	---	0.00	0.00		
		Lead	---	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates greater than 30 tons per hour:

P= 30 tons/hr Note: P includes the weight of the metal poured and the weight of the castings.

limit = $55 \times (30^{0.11}) - 40 = 40.0 \text{ lb/hr}$ (allowable)

with potential:

$46.0 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 10.5 \text{ lb/hr}$ (will comply)

Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Pouring/Casting SCC# 3-04-003-18	2.5	PM	4.20	45.99	45.99	none	
		PM-10	2.06	22.56	22.56		
		SO2	0.02	0.22	0.22		
Pouring station P-2		NOx	0.01	0.11	0.11		
		VOC	0.00	0.00	0.00		
		CO	---	0.00	0.00		
		Lead	---	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates greater than 30 tons per hour:

P= 30 tons/hr Note: P includes the weight of the metal poured and the weight of the castings.

limit = $55 \times (30^{0.11}) - 40 = 40.0 \text{ lb/hr}$ (allowable)

with potential:

$45.99 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 10.5 \text{ lb/hr}$ (will comply)

Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Castings Cooling SCC# 3-04-003-25	2.5	PM	1.40	15.33	15.33	baghouse CD-1	0.00%
		PM-10	1.40	15.33	15.33	baghouse CD-1	0.00%
		SO2	0.00	0.00	0.00		
cooling station C-1		NOx	0.00	0.00	0.00		
		VOC	0.00	0.00	0.00		
		CO	---	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates greater than 30 tons per hour:

P= 30 tons/hr Note: P includes the weight of the metal poured and the weight of the castings.

limit = $55 \times (30^{0.11}) - 40 = 40.0 \text{ lb/hr}$ (allowable)

with potential:

$15.33 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 3.5 \text{ lb/hr}$ (will comply)

Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Castings Cooling	2.5	PM	1.40	15.33	7.66	baghouse CD-1	50.00%
SCC# 3-04-003-25		PM-10	1.40	15.33	7.66	baghouse CD-1	50.00%
		SO2	0.00	0.00	0.00		
cooling station C-2		NOx	0.00	0.00	0.00		
		VOC	0.00	0.00	0.00		
		CO	---	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates greater than 30 tons per hour:

P= 30 tons/hr Note: P includes the weight of the metal poured and the weight of the castings.

$$\text{limit} = 55 \times (30^{0.11}) - 40 = 40.0 \text{ lb/hr (allowable)}$$

with potential:

$$7.66 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 1.7 \text{ lb/hr (will comply)}$$

Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Castings Shakeout	2.5	PM	3.20	35.04	35.04	baghouse CD-1	0.00%
		PM-10	2.24	24.53	24.53	baghouse CD-1	0.00%
SCC# 3-04-003-31		SO2	0.00	0.00	0.00		
AP-42 Ch. 12.10		NOx	0.00	0.00	0.00		

Knockout zone SK-1

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates greater than 30 tons per hour:

P= 30 tons/hr Note: P is the weight of the castings.

$$\text{limit} = 55 \times (30^{0.11}) - 40 = 40.0 \text{ lb/hr (allowable)}$$

with potential:

$$35.0 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 8.0 \text{ lb/hr (will comply)}$$

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Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
South Shotblaster	2.500	PM	17.00	186.15	1.86	baghouse CD-1	99.00%
		PM-10	1.70	18.61	0.19	baghouse CD-1	99.00%
		SO2	0.00	0.00	0.00		
SCC# 3-04-003-40		NOx	0.00	0.00	0.00		
AP-42 Ch. 12.10		VOC	0.00	0.00	0.00		
		CO	0.00	0.00	0.00		

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates less than 30 tons per hour:

P= 2.5 tons/hr

limit = $4.1 \times (2.5^{0.67}) = 7.6 \text{ lb/hr}$ (allowable)

with potential:

$1.9 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 0.4 \text{ lb/hr}$ (will comply)

Process:	Rate (tons sand/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Sand Handling	50	PM	3.6	788.4	8.7	baghouse CD-1	98.90%
EPA SCC# 3-04-003-50		PM-10	0.54	118.3	9.0	baghouse CD-1	92.40%

Allowable Emissions:

The following calculations determine PM compliance with 326 IAC 6-3-2 for process weight rates greater than 30 tons per hour:

P= 50 tons/hr

limit = $55 \times (50^{0.11}) - 40 = 44.6 \text{ lb/hr}$ (allowable)

with potential:

$8.7 \text{ tons/yr} \times 2000 \text{ lb/ton} / 8760 \text{ hr/yr} = 2.0 \text{ lb/hr}$ (will comply)

Methodology:

Ef = Emission factor

Ebc = Potential Emissions before controls = Rate (units/hr) x Ef(lbs/unit) x 8760 hrs/yr / 2000 lbs/hr

Eac = Potential Emissions after controls = (1-efficiency/100) x Ebc

Company Name: Fort Wayne Foundry - Lima Road Division, Inc.
 Address: Fort Wayne, Indiana
 Permit Number: 003-7528

Process	6-3 limit (lbs/hr)	6-3 limit (tons/yr)	Limited Emissions PM (tons/yr)	Truncated 6-3 limits (lbs/hr)	Limited Emissions PM10 (tons/yr)	Truncated PM10 limits (lbs/hr)
P-2 pouring	37.8	165.56	45.99	10.50	22.56	5.15
C-2 cooling	37.8	165.56	7.66	1.75	7.66	1.75
SK-2 shakeout	40	175.20	35.04	8.00	24.53	5.60
sand handling	44.6	195.35	8.70	1.99	8.70	1.99
Total for 1978 construction	160.20	701.68	97.39	22.24	63.45	14.49

Appendix A: Emission Calculations

Company Name: Fort Wayne Foundry - Lima Road Division
 Plant Location: 4910 Lima Road, Fort Wayne, Indiana 46808
 County: Allen
 Permit Reviewer: Nisha Sizemore
 Title V #: 003-7528-00007

Existing Source Emissions (tons/year)

	PM	PM10	SO2	NOx	VOC	CO
scrap and charge handling	21.02	12.61	0.00	0.00	0.00	0.00
melting	150.67	91.10	0.00	0.00	7.01	0.00
pouring/casting	147.17	72.18	0.70	0.35	0.00	0.00
castings cooling	0.98	0.98	0.00	0.00	0.00	0.00
castings shakeout	2.24	1.57	0.00	0.00	42.05	0.00
shotblasting	11.91	1.19	0.00	0.00	0.00	0.00
core making	283.83	42.58	0.00	0.00	0.00	0.00
sand handling	15.80	2.40	0.00	0.00	0.00	0.00
totals	633.62	224.61	0.70	0.35	49.06	0.00

PSD Significance Levels

Now, assume that these lower emission factors apply to core making and melting:

Process:	Rate (tons sand/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Core Making	18.00	PM	0.54	42.57	42.57	none	
SCC# 3-04-003-50		PM-10	0.54	42.57	42.57		
AP-42 Ch. 12.10		SO2	0.00	0.00	0.00		
		NOx	0.00	0.00	0.00		
Three (3) machines, each rated at six (6) tons sand per hour		VOC	---	0.00	0.00		
		CO	---	0.00	0.00		
Process:	Rate (tons Al/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Type of control	Control Efficiency (%)
Melting	8.00	PM	0.90	31.54	31.54	none	
Two (2) Reverberatory Furnaces (RF-1, RF-2)		PM-10	0.86	30.13	30.13		
		SO2	0.00	0.00	0.00		
		NOx	0.00	0.00	0.00		
EPA SCC# 3-04-003-03		VOC	0.20	7.01	7.01		
		CO	0.00	0.00	0.00		

**Existing Source Emissions
(tons/year)**

	PM	PM10	SO2	NOx	VOC	CO
scrap and charge handling	21.02	12.61	0.00	0.00	0.00	0.00
melting	31.54	30.13	0.00	0.00	7.01	0.00
pouring/casting	147.17	72.18	0.70	0.35	0.00	0.00
castings cooling	0.98	0.98	0.00	0.00	0.00	0.00
castings shakeout	2.24	1.57	0.00	0.00	42.05	0.00
shotblasting	11.91	1.19	0.00	0.00	0.00	0.00
core making	42.57	42.57	0.00	0.00	0.00	0.00
sand handling	15.80	2.40	0.00	0.00	0.00	0.00
totals	273.23	163.64	0.70	0.35	49.06	0.00
PSD Significance Levels	100 or 250	100 or 250	100 or 250	100 or 250	100 or 250	100 or 250

Even assuming that the lower emission factors from melting and coremaking, the source would still be an existing major source.